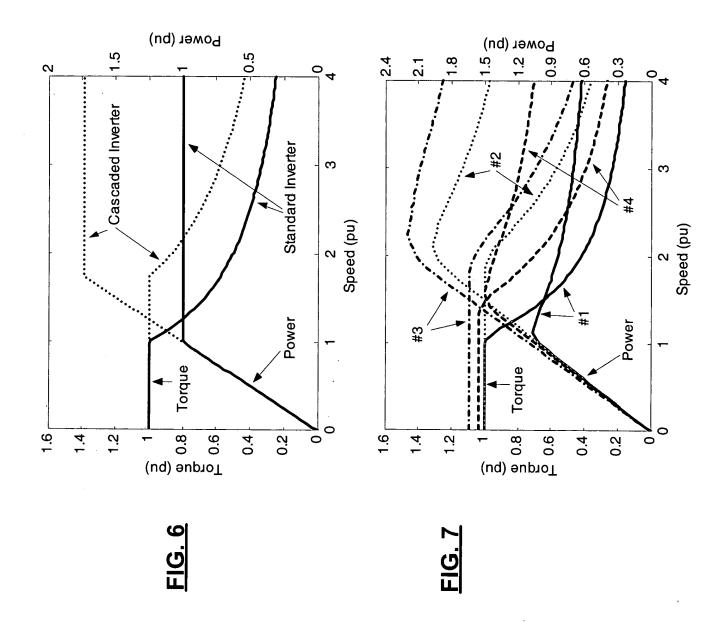


Title: INVERTER FOR ELECTRIC AND HYBRID POWERED VEHICLES AND ASSOCIATED SYSTEM AND METHOD

Inventors: Brian A. Welchko et al. Atty. Ref.: GP-304054



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6/7

1.15

10.1

155

Cascaded Inv. with Adj. Turns Ratio

Motor. Case #1

Standard Inv. with Standard Motor.

Case #1

Configuration

Cascaded Inv. with Standard Motor.

Case #2

Cascaded Inv. with Maximum Flux

Motor. Case #3

2.00

16.1

21.1

155

2.00

21.0

23.

170

1.50

11.8

15.9

161

Z

and Adjusted Turns Ratio Motor. Case Cascaded Inverter with Increased Flux

Switch kVA(nd) 1.00

Corner Speed

Torque at Corner (Nm)

Corner

(kW)

10.1

155

P at

SYSTEM RATINGS FOR VARIOUS INVERTER CAPACITIES AND IPM MOTOR CONFIGURATIONS

TABLEI

Speed (mdu) 1300 1300 700 700 940 Rated I Flux √3 /N (nd) (nd) 11/53 <u>X</u> = 4/3 Turns Ratio (nd) 3

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